

F. TYPHOON IRIS (19-23 AUGUST 1959)

The first indication of the tropical disturbance, later to become Typhoon IRIS, was noted on 19 August when analysis of the 0000Z surface chart indicated a weak cyclonic circulation forming on the Intertropical Convergence Zone in the vicinity of 16N - 128E. The area was designated Cyclone 18, and a reconnaissance aircraft was requested to make an investigation. At 200200Z a closed surface circulation was found at 16.5N - 125.9E with maximum observed surface winds of 70 knots. This was the fifth typhoon of 1959, Typhoon IRIS.

At first IRIS moved west-northwesterly at 7 knots, blocked from any pronounced northward movement by a strong high lying across Southeastern Asia. However, the high gradually weakened and receded, enabling the typhoon to veer more northerly. Thus IRIS began moving to the northwest at 15 knots, a track which took her within 45 miles of the southern tip of Taiwan. IRIS then moved on to the coast of China near Kao-Chi where she rapidly became extra-tropical and subsequently dissipated.

IRIS was characterized by rapid intensification. There were no unusual forecasting problems in connection with IRIS, and the forecast errors were near average for 12, 24 and 48 hours. A total of twelve warnings were issued covering a period of 3 days.

For damage caused by Typhoon IRIS see section VI, "Destructive Effects of Typhoons."

RECONNAISSANCE AIRCRAFT FIXES - TYPHOON IRIS

FIX NO.	TIME	LAT.	LONG.	#UNIT METHOD & ACCY	MIN	MAX	MIN	MAX FLT LVL	700MB TEMP (°C)	700MB DEWPT (°C)	EYE CHARACTERISTICS
					SLP MBS	SFC WND	700MB HGT				
1	200200Z	16.5N	125.9E	54-P-5	994	70	9980	40	12	05	CIRC DIA 20 MI
2	201400Z	17.0N	124.2E	54-R-10	--	--	--	45	--	--	HVY SPIRAL BANDS
3	202000Z	17.1N	124.0E	54-R-10	--	--	--	80	--	--	CIRC DIA 40 MI
4	202140Z	17.1N	123.6E	54-P-5	985	85	9760	80	14	10	CIRC DIA 45 MI
5	210200Z	17.3N	123.5E	54-P-5	998	85	9650	80	15	10	CIRC DIA 40 MI
6	210800Z	18.2N	123.1E	54-P-2	976	100	9500	80	13	11	EYE ELLIP 45X60 MI
7	212210Z	20.3N	121.2E	54-P-2	971	65	9570	80	17	08	CIRC DIA 20 MI
8	220200Z	20.5N	120.7E	54-P-2	976	85	9430	100	16	07	CIRC DIA 25 MI
9	220800Z	21.8N	120.0E	54-P-2	966	85	9130	75	19	11	CIRC DIA 30 MI
10	221000Z	22.1N	119.9E	54-P-10	966	100	9140	80	19	10	CIRC DIA 15 MI

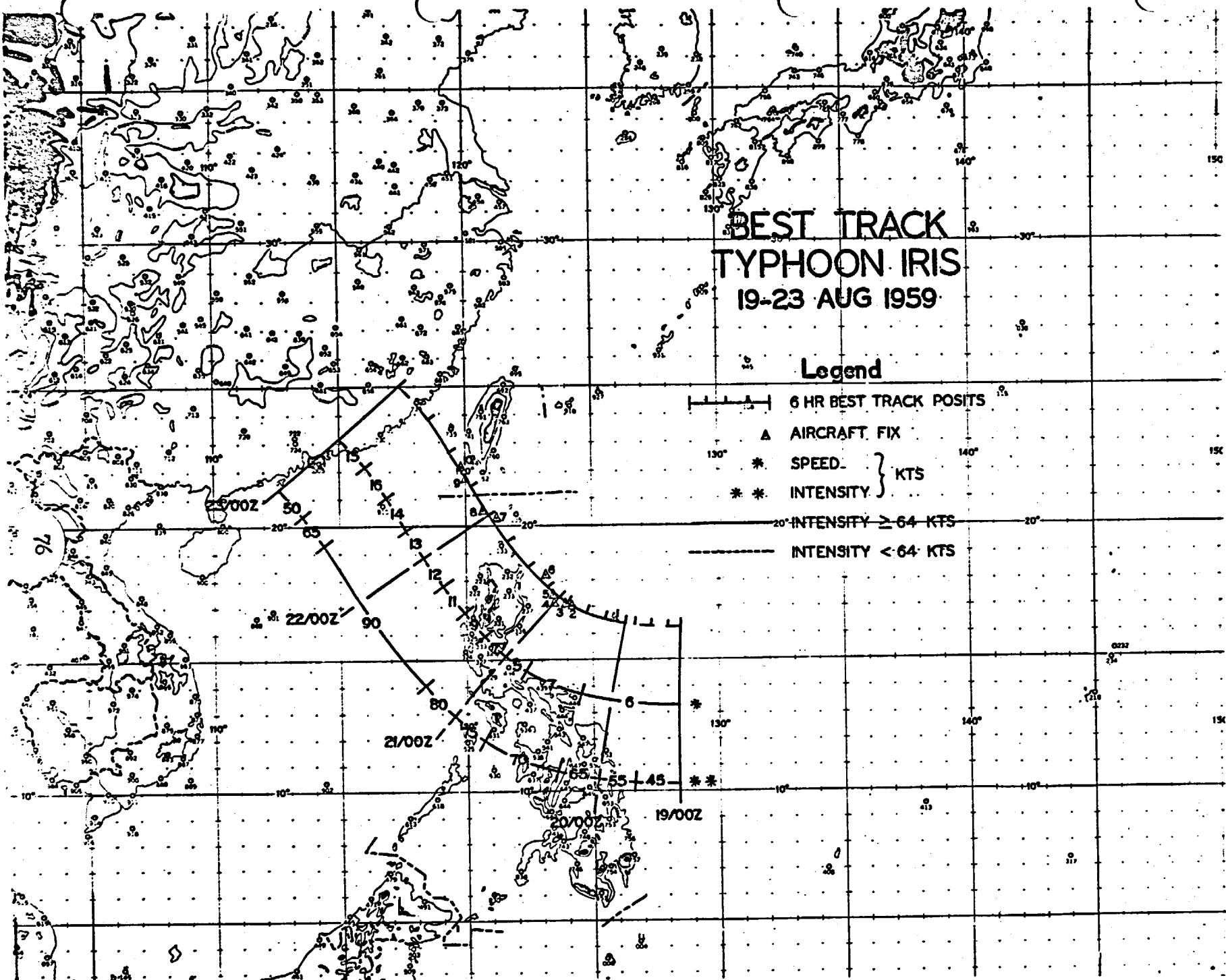
TYPHOON IRIS 19 - 23 AUGUST 1959
POSITION AND FORECAST VERIFICATION DATA

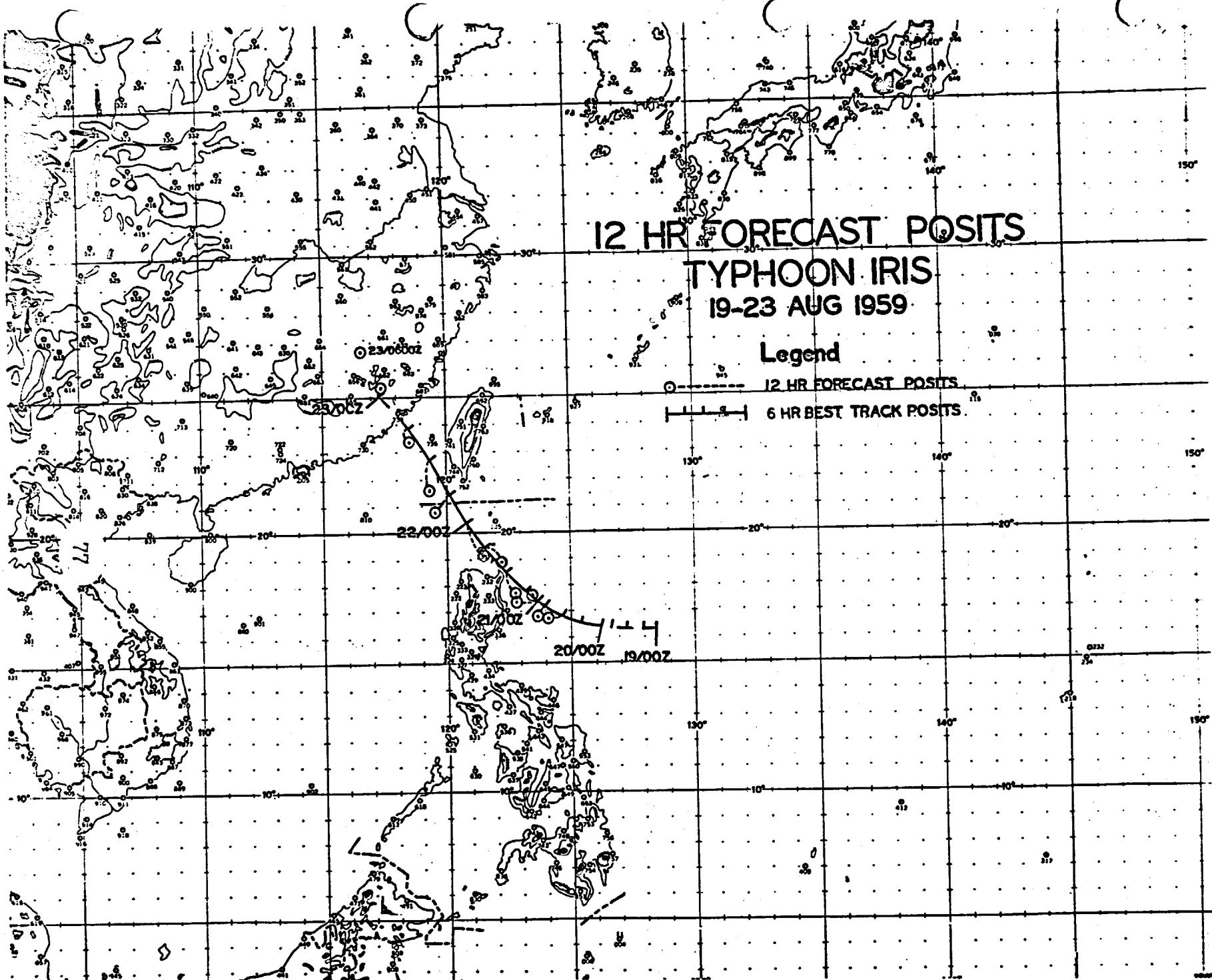
DTG	STORM POSITION LAT. LONG.	12 HR ERROR	24 HR ERROR
		DEG. DISTANCE	DEG. DISTANCE
190000Z	16.2N 128.4E	- - - -	- - - -
190600Z	16.2N 128.0E	- - - -	- - - -
191200Z	16.3N 127.3E	- - - -	- - - -
191800Z	16.3N 126.8E	- - - -	- - - -
200000Z	16.4N 126.1E	- - - -	- - - -
200600Z	16.6N 125.5E	- - - -	- - - -
201200Z	16.8N 124.8E	270 - 36	- - - -
201800Z	17.2N 124.1E	215 - 25	- - - -
210000Z	17.4N 123.7E	260 - 45	260 - 90
210600Z	17.9N 123.2E	155 - 44	220 - 64
211200Z	18.5N 122.5E	155 - 61	235 - 81
211800Z	19.4N 121.6E	140 - 43	150 - 130
220000Z	20.3N 120.9E	145 - 90	155 - 154
220600Z	21.4N 120.2E	040 - 54	155 - 143
221200Z	22.6N 119.3E	180 - 64	155 - 181
221800Z	23.9N 118.4E	165 - 50	205 - 127
230000Z	25.0N 117.3E	045 - 10	175 - 144
AVERAGE 12 HOUR FORECAST ERROR		47.5 NM	
AVERAGE 24 HOUR FORECAST ERROR		123.8 NM	

BEST TRACK
TYphoon Iris
19-23 AUG 1959

Legend

- 6 HR BEST TRACK POSITS
 - ▲ AIRCRAFT FIX
 - * SPEED } KTS
 - ** INTENSITY
- 20° INTENSITY \geq 64 KTS
- INTENSITY < 64 KTS





12 HR FORECAST POSITS
TYPHOON IRIS
19-23 AUG 1959

Legend

12 HR FORECAST POSITS

6 HR BEST TRACK POSITS

20/00Z 19/00Z

